

Appendix table 2-1. Percentage of high school graduates who have taken selected mathematics courses, by sex and race/ethnicity: 1982 and 1992

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Year and course	Total	Male	Female	White	Black	Hispanic	Asian	American Indian
1982:								
Any mathematics.....	99.0	99.4	98.7	99.1	99.6	98.6	100.0	96.6
Remedial/below grade level mathematics.....	32.5	35.9	29.5	27.0	54.4	48.5	18.8	52.6
Algebra I.....	68.4	66.4	70.4	71.1	61.1	59.9	67.4	54.1
Algebra II.....	36.9	37.5	36.3	40.5	26.2	22.5	55.0	20.0
Geometry.....	48.4	48.3	48.5	53.9	30.3	29.0	64.3	26.3
Trigonometry.....	12.2	13.3	11.2	13.8	6.3	6.8	25.7	7.7
Analysis/precalculus.....	5.8	6.1	5.5	6.7	2.1	3.0	15.1	0.7
Calculus.....	4.3	4.7	4.0	5.0	1.4	1.6	13.1	1.2
Advanced placement calculus.....	1.4	1.4	1.4	1.7	0.3	0.3	5.9	0.0
Algebra II and geometry.....	29.1	30.1	28.2	33.0	17.0	14.4	40.3	13.6
Algebra II, geometry, and trigonometry.....	7.4	8.5	6.3	8.5	2.9	4.2	12.9	3.1
Algebra II, geometry, trigonometry, and calculus.....	0.8	1.1	0.5	0.9	0.2	0.5	2.0	0.0
1992:								
Any mathematics.....	99.6	99.3	99.9	99.7	99.1	99.8	100.0	100.0
Remedial/below grade level mathematics.....	17.4	19.5	15.4	14.6	30.9	24.2	14.5	35.2
Algebra I.....	79.4	80.0	78.9	79.6	78.0	84.4	71.9	80.8
Algebra II.....	56.1	54.0	58.1	59.2	40.9	46.9	60.8	42.1
Geometry.....	70.4	69.0	71.7	72.6	60.4	62.9	77.1	53.6
Trigonometry.....	21.1	21.4	20.8	22.5	13.0	15.2	31.3	10.0
Analysis/precalculus.....	17.2	16.8	17.6	17.9	12.6	10.6	33.9	3.0
Calculus.....	10.1	10.3	9.8	10.7	6.9	4.7	20.1	1.4
Advanced placement calculus.....	5.5	5.7	5.4	5.8	2.5	2.2	16.1	1.3
Algebra II and geometry.....	50.1	48.6	51.6	53.1	35.0	41.9	55.5	35.7
Algebra II, geometry, and trigonometry.....	14.5	14.7	14.4	15.9	6.8	10.9	18.2	5.9
Algebra II, geometry, trigonometry, and calculus.....	2.7	2.6	2.8	3.0	0.9	1.2	5.4	0.6

NOTES: Percentages reflect only those courses taken in high school. Because some students take algebra I and other similar courses in the eighth grade, these percentages could underestimate the number of individuals who have ever taken algebra I and other subjects in school. Because of the use of a different editing procedure, the statistics shown for 1982 differ slightly from previously published figures.

SOURCE: U.S. Department of Education/NCES. 1994. *The Condition of Education, 1994*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-2. Percentage of high school graduates who have taken selected science courses, by sex and race/ethnicity: 1982 and 1992

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American Indian

Year and course	Total	Male	Female	White	Black	Hispanic	Asian	American Indian
Any science.....	97.6	97.5	97.7	97.7	98.6	95.9	97.1	98.4
Biology.....	78.7	76.5	80.6	80.1	75.3	73.2	83.5	65.5
AP/honors biology.....	6.7	6.2	7.2	7.5	4.5	3.5	13.1	5.1
Chemistry.....	31.6	32.4	30.9	34.7	22.5	16.7	51.9	34.1
AP/honors chemistry.....	2.6	3.1	2.1	2.9	1.6	1.3	5.8	0.9
Physics.....	13.5	17.9	9.4	15.3	6.8	5.5	35.8	6.9
AP/honors physics.....	0.9	1.2	0.5	0.9	0.8	0.4	3.5	0.0
Engineering.....	0.1	0.2	0.1	0.2	0.2	0.1	0.0	0.0
Astronomy.....	0.2	0.3	0.1	0.2	0.2	0.3	0.0	0.0
Geology.....	11.4	12.7	10.2	12.0	8.7	9.6	7.9	9.1
Biology and chemistry.....	28.6	28.4	28.9	31.6	20.2	15.2	47.2	19.1
Biology, chemistry, and physics.....	9.8	12.5	7.4	11.2	4.7	3.7	28.6	4.7
1992:								
Any science.....	99.6	99.5	99.7	99.5	100.0	99.7	100.0	100.0
Biology.....	93.0	91.9	94.2	93.5	92.2	91.2	93.4	84.5
AP/honors biology.....	5.7	5.8	5.7	6.5	3.2	2.4	6.8	5.0
Chemistry.....	55.5	54.2	56.8	58.0	45.9	42.6	67.4	32.9
AP/honors chemistry	4.0	4.3	3.7	4.2	2.3	2.5	9.1	1.8
Physics.....	24.7	28.2	21.4	25.9	17.6	15.7	41.6	13.3
AP/honors physics.....	2.9	4.0	1.9	2.9	1.4	2.4	9.2	0.6
Engineering.....	0.3	0.4	0.3	0.3	0.2	0.1	0.5	0.0
Astronomy.....	0.7	0.9	0.6	1.0	0.1	0.1	0.1	0.0
Geology.....	18.4	18.8	18.0	19.3	17.6	11.5	16.6	29.7
Biology and chemistry.....	53.9	52.2	55.6	56.5	44.2	40.5	65.4	31.2
Biology, chemistry, and physics.....	21.6	24.4	18.9	22.6	15.5	12.8	38.2	10.8

NOTES: Percentages reflect only those courses taken in high school. Because some students take algebra I and other similar courses in the eighth grade, these percentages could underestimate the number of individuals who have ever taken algebra I and other subjects in school. Because of the use of a different editing procedure, the statistics shown for 1982 differ slightly from previously published figures.

SOURCE: U.S. Department of Education/NCES. 1994. *The Condition of Education, 1994*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-3. Average scores by percentile for the National Assessment of Educational Progress mathematics test for age 9, by sex and race/ethnicity: 1978–1992, selected years

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Percentile, sex, and race/ethnicity	1978	1982	1986	1990	1992
Total students:					
5th.....	157.1	159.3	163.0	173.3	172.2
10th.....	171.1	173.2	176.7	185.8	185.4
25th.....	194.6	196.0	199.0	207.8	207.9
50th.....	220.1	220.4	223.3	231.1	231.0
75th.....	243.7	243.3	245.6	252.5	252.6
90th.....	264.0	262.7	264.2	271.0	270.9
95th.....	275.7	273.8	275.5	282.1	281.7
Male:					
5th.....	154.9	156.4	162.7	171.8	172.7
10th.....	169.0	170.2	176.1	184.6	186.1
25th.....	192.8	193.0	198.6	206.7	208.9
50th.....	218.4	218.6	223.0	230.4	232.2
75th.....	243.0	242.3	245.7	252.4	254.2
90th.....	263.8	262.2	265.1	271.6	272.5
95th.....	275.2	273.6	276.4	282.8	283.8
Female:					
5th.....	159.4	162.8	163.5	174.5	171.8
10th.....	173.1	176.6	177.5	187.0	184.9
25th.....	196.4	198.9	199.0	208.9	206.9
50th.....	221.5	222.2	223.5	231.8	229.9
75th.....	244.3	244.2	245.5	252.7	251.1
90th.....	264.2	263.1	263.3	270.4	269.2
95th.....	276.1	273.9	274.2	281.4	279.8
White:					
5th.....	166.3	168.1	170.6	181.8	181.8
10th.....	179.4	180.8	183.9	194.0	194.2
25th.....	201.4	201.9	205.3	214.6	215.0
50th.....	225.1	225.3	228.3	236.3	236.1
75th.....	247.7	246.8	249.6	256.4	256.4
90th.....	267.0	265.3	267.4	274.5	273.9
95th.....	278.4	276.0	278.2	284.8	284.5
Black:					
5th.....	133.7	136.7	146.2	156.0	154.9
10th.....	147.0	150.4	158.4	167.1	165.9
25th.....	169.3	172.5	180.5	186.0	185.5
50th.....	193.0	196.6	202.9	208.4	208.6
75th.....	216.4	218.2	223.6	231.4	230.4
90th.....	236.1	235.7	241.2	248.9	249.2
95th.....	247.5	247.9	251.3	258.9	258.7
Hispanic:					
5th.....	144.4	148.1	154.8	161.8	158.6
10th.....	156.3	160.8	163.8	173.4	169.0
25th.....	178.7	181.3	184.5	193.1	189.7
50th.....	204.3	205.2	206.3	216.2	211.8
75th.....	227.2	226.5	226.0	235.1	233.8
90th.....	249.5	246.4	244.8	251.7	252.7
95th.....	259.6	256.6	254.4	262.2	263.1

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

**Appendix table 2-4. Average scores by percentile for the National Assessment of Educational Progress mathematics test for age 13, by sex and race/ethnicity:
1978–1992, selected years**

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Percentile, sex, and race/ethnicity	1978	1982	1986	1990	1992
Total students:					
5th.....	198.2	212.4	218.3	217.6	220.5
10th.....	213.3	225.3	230.0	230.2	233.2
25th.....	238.1	246.2	248.3	249.8	252.9
50th.....	265.2	269.5	268.7	270.9	274.1
75th.....	291.1	291.6	289.6	291.7	294.0
90th.....	313.4	310.8	309.2	309.9	311.9
95th.....	326.6	322.2	320.5	320.1	322.9
Male:					
5th.....	195.8	211.5	218.0	215.5	220.5
10th.....	211.4	224.3	229.5	228.6	233.2
25th.....	236.7	246.1	248.9	250.2	253.1
50th.....	264.8	270.2	270.0	272.0	274.9
75th.....	291.5	293.3	291.4	293.1	295.7
90th.....	314.4	312.5	310.8	312.4	314.0
95th.....	327.5	324.1	322.0	323.1	324.8
Female:					
5th.....	200.9	213.5	218.5	220.4	220.6
10th.....	215.0	226.2	230.6	231.4	233.0
25th.....	239.4	246.3	247.8	249.5	252.7
50th.....	265.7	268.8	267.4	269.9	273.4
75th.....	290.7	290.1	287.8	290.3	292.2
90th.....	312.4	308.8	307.2	307.7	309.8
95th.....	325.6	320.1	318.5	317.3	320.8
White:					
5th.....	211.9	223.0	225.7	228.2	230.9
10th.....	225.5	234.4	236.5	239.3	242.2
25th.....	247.6	253.5	254.1	257.3	260.5
50th.....	272.2	274.9	273.3	276.6	279.4
75th.....	296.0	295.5	293.2	296.0	298.0
90th.....	317.1	313.8	312.1	313.2	315.1
95th.....	329.6	324.8	322.9	322.9	325.2
Black:					
5th.....	170.2	201.7	201.7	201.6	199.5
10th.....	184.1	200.2	213.2	211.8	212.3
25th.....	205.5	219.3	230.7	229.9	231.1
50th.....	229.0	241.0	249.3	249.4	250.6
75th.....	254.1	260.9	266.9	267.8	270.9
90th.....	276.4	279.7	284.4	285.3	286.5
95th.....	288.4	291.1	296.4	296.2	297.4
Hispanic:					
5th.....	180.2	202.3	205.9	206.2	212.2
10th.....	192.5	213.5	216.2	216.4	224.0
25th.....	214.3	230.7	235.5	234.3	240.6
50th.....	237.4	251.9	254.3	255.1	259.4
75th.....	261.9	273.7	274.2	275.2	278.6
90th.....	283.7	292.8	291.7	292.2	294.9
95th.....	296.3	304.1	301.2	303.3	304.1

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Appendix table 2-5. Average scores by percentile for the National Assessment of Educational Progress mathematics test for age 17, by sex and race/ethnicity: 1978–1992, selected years

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Percentile, sex, and race/ethnicity	1978	1982	1986	1990	1992
Total students:					
5th.....	241.3	244.9	251.7	253.4	255.6
10th.....	254.2	255.9	262.7	264.0	267.2
25th.....	276.4	275.8	280.7	282.5	286.3
50th.....	301.4	298.8	301.4	304.9	307.6
75th.....	325.4	321.5	323.1	326.5	328.0
90th.....	344.7	340.6	343.0	344.5	345.2
95th.....	355.7	351.2	354.0	355.5	354.8
Male:					
5th.....	243.8	247.0	252.7	252.8	257.8
10th.....	257.0	257.9	264.1	263.9	268.9
25th.....	278.9	278.1	282.3	283.7	287.8
50th.....	304.8	301.8	303.9	306.4	309.0
75th.....	329.5	325.1	327.8	329.3	331.4
90th.....	349.2	344.4	346.7	347.8	348.6
95th.....	360.1	354.4	357.5	358.5	358.1
Female:					
5th.....	239.3	242.8	250.3	253.9	253.7
10th.....	252.2	254.1	261.2	264.0	265.6
25th.....	274.3	273.7	279.3	281.5	284.8
50th.....	298.3	296.1	299.1	303.7	305.8
75th.....	321.5	317.7	319.8	324.1	324.8
90th.....	340.3	336.7	338.2	341.4	341.4
95th.....	350.4	347.2	349.3	351.8	350.6
White:					
5th.....	251.9	253.3	261.2	260.2	264.1
10th.....	263.3	263.8	270.5	270.5	274.4
25th.....	283.5	282.3	286.9	288.8	292.8
50th.....	306.6	303.9	306.8	310.1	312.8
75th.....	328.9	325.1	327.8	330.1	332.2
90th.....	347.3	343.4	346.1	347.2	348.0
95th.....	357.8	353.4	356.0	357.1	357.4
Black:					
5th.....	217.2	225.1	236.7	245.4	238.5
10th.....	227.8	234.5	244.3	253.5	248.9
25th.....	245.7	251.4	259.9	268.7	267.4
50th.....	267.7	271.2	278.6	287.1	286.9
75th.....	290.5	291.2	296.1	307.1	303.9
90th.....	310.3	310.8	312.0	325.7	320.8
95th.....	320.7	321.3	324.8	337.7	330.8
Hispanic:					
5th.....	224.1	232.0	236.3	229.1	247.5
10th.....	234.0	240.7	248.5	242.2	257.8
25th.....	253.4	255.8	264.7	263.8	273.3
50th.....	275.1	275.3	283.1	281.8	291.6
75th.....	298.5	297.1	301.2	304.0	310.7
90th.....	319.5	314.9	318.6	325.1	327.7
95th.....	332.0	326.7	329.3	336.3	336.4

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-6. Average mathematics proficiency: percent of students at or above selected anchor points, by age, race/ethnicity, and sex: 1982–1992, selected years

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Age and year	Anchor point	Total	White	Black	Hispanic	Male	Female
Age 9	200						
1982.....		71.4	76.8	46.1	55.7	68.8	74.0
1986.....		74.1	79.6	53.4	57.6	74.0	74.3
1990.....		81.5	86.9	60.0	68.4	80.6	82.3
1992.....		81.4	86.9	59.8	65.0	81.9	80.9
Difference 1982–1992.....		10.0	10.1	13.7	9.3	13.1	6.9
Age 13	250						
1982.....		71.4	78.3	37.9	52.2	71.3	71.4
1986.....		73.3	78.9	49.0	56.0	73.8	72.7
1990.....		74.7	82.0	48.7	56.7	75.1	74.4
1992.....		77.9	84.9	51.0	63.3	78.1	77.7
Difference 1982–1992.....		6.5	6.6	13.1	11.1	6.8	6.3
Age 17	300						
1982.....		48.5	54.7	17.1	21.6	51.9	45.3
1986.....		51.7	59.1	20.8	26.5	54.6	48.9
1990.....		56.1	63.2	32.8	30.1	57.6	54.7
1992.....		59.1	66.4	29.8	39.2	60.5	57.7
Difference 1982–1992.....		10.6	11.7	12.7	17.6	8.6	12.4

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

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Appendix table 2-6. Average mathematics proficiency: percent of students at or above selected anchor points, by age, race/ethnicity, and sex: 1982–1992, selected years

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Age and year	Anchor point	Total	White	Black	Hispanic	Male	Female
Age 9	200						
1982.....		71.4	76.8	46.1	55.7	68.8	74.0
1986.....		74.1	79.6	53.4	57.6	74.0	74.3
1990.....		81.5	86.9	60.0	68.4	80.6	82.3
1992.....		81.4	86.9	59.8	65.0	81.9	80.9
Difference 1982–1992.....		10.0	10.1	13.7	9.3	13.1	6.9
Age 13	250						
1982.....		71.4	78.3	37.9	52.2	71.3	71.4
1986.....		73.3	78.9	49.0	56.0	73.8	72.7
1990.....		74.7	82.0	48.7	56.7	75.1	74.4
1992.....		77.9	84.9	51.0	63.3	78.1	77.7
Difference 1982–1992.....		6.5	6.6	13.1	11.1	6.8	6.3
Age 17	300						
1982.....		48.5	54.7	17.1	21.6	51.9	45.3
1986.....		51.7	59.1	20.8	26.5	54.6	48.9
1990.....		56.1	63.2	32.8	30.1	57.6	54.7
1992.....		59.1	66.4	29.8	39.2	60.5	57.7
Difference 1982–1992.....		10.6	11.7	12.7	17.6	8.6	12.4

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

**Appendix table 2-7. Average mathematics achievement scores, by sex,
race/ethnicity, and grade: 1992**

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Sex and race/ethnicity	Grade 4	Grade 8	Grade 12
Total.....	218.5	267.7	298.7
Male.....	219.7	267.4	300.6
Female.....	217.3	268.0	297.0
White.....	226.8	277.2	305.0
Black.....	191.5	236.8	274.8
Hispanic.....	200.8	246.3	282.9
Asian.....	231.3	288.0	315.3
American Indian.....	209.1	254.3	281.1

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-8. Average scores by percentile for the National Assessment of Educational Progress science test for age 9, by sex and race/ethnicity: 1977–1992, selected years

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Percentile, sex, and race/ethnicity	1977	1982	1986	1990	1992
Total students:					
5th.....	143.8	150.9	155.0	159.8	162.8
10th.....	160.9	166.8	169.9	176.1	177.8
25th.....	190.1	194.4	195.4	202.0	203.8
50th.....	221.5	221.4	225.1	230.3	232.1
75th.....	251.0	249.0	253.1	256.6	258.4
90th.....	276.5	272.4	276.9	278.8	280.6
95th.....	291.4	286.4	290.9	292.1	293.6
Male:					
5th.....	146.8	150.4	158.0	159.6	164.7
10th.....	163.2	166.5	172.9	176.3	180.9
25th.....	191.9	193.5	198.7	202.1	207.2
50th.....	223.6	221.3	227.9	231.6	236.2
75th.....	253.4	250.4	256.1	259.4	263.1
90th.....	279.1	274.7	280.3	283.3	285.8
95th.....	294.2	287.1	294.8	296.3	298.6
Female:					
5th.....	141.3	151.2	152.5	159.9	161.0
10th.....	158.5	167.5	166.9	175.8	175.3
25th.....	188.3	195.3	193.2	201.9	200.9
50th.....	219.5	221.4	222.5	229.2	228.5
75th.....	248.6	247.4	250.2	254.0	253.7
90th.....	273.8	270.6	273.3	274.6	275.0
95th.....	288.2	284.4	287.0	287.0	287.7
White:					
5th.....	163.2	167.0	166.5	176.9	178.0
10th.....	177.6	182.2	181.0	189.9	191.0
25th.....	202.4	203.8	205.5	212.6	214.5
50th.....	229.8	228.6	232.5	238.3	240.0
75th.....	256.9	254.9	258.8	262.3	264.2
90th.....	281.1	277.6	281.7	283.5	285.1
95th.....	295.4	290.8	294.9	295.7	297.5
Black:					
5th.....	107.0	123.6	132.8	131.3	138.0
10th.....	122.8	136.7	146.9	145.3	151.6
25th.....	146.6	159.2	169.7	169.8	173.7
50th.....	173.8	188.2	195.9	196.3	201.1
75th.....	202.9	214.4	222.6	224.1	226.3
90th.....	229.2	236.4	246.4	246.8	248.4
95th.....	244.1	246.5	259.5	260.0	260.5
Hispanic:					
5th.....	125.2	127.3	134.0	146.2	143.0
10th.....	139.8	141.9	148.1	158.5	156.8
25th.....	163.9	161.9	172.6	180.6	179.1
50th.....	191.4	190.8	199.8	206.2	204.8
75th.....	219.0	215.9	225.6	232.7	230.4
90th.....	245.7	236.2	252.1	252.9	253.7
95th.....	261.3	246.0	264.9	266.8	264.9

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Appendix table 2-9. Average scores by percentile for the National Assessment of Educational Progress science test for age 13, by sex and race/ethnicity: 1977–1992, selected years

Page 1 of 1

Percentile, sex, and race/ethnicity	1977	1982	1986	1990	1992
Total students:					
5th.....	173.7	185.2	188.9	191.4	193.1
10th.....	190.6	199.6	203.3	205.9	208.9
25th.....	218.4	224.1	227.2	230.0	234.7
50th.....	248.6	250.9	252.1	256.4	260.4
75th.....	277.5	276.7	276.5	281.1	283.8
90th.....	302.4	299.2	298.2	302.4	303.1
95th.....	316.0	312.8	310.3	315.1	314.6
Male:					
5th.....	176.7	190.2	192.3	191.9	193.4
10th.....	193.5	204.4	207.2	207.3	209.4
25th.....	221.5	229.5	231.1	232.9	235.8
50th.....	252.4	256.7	256.9	260.3	262.7
75th.....	281.6	282.6	282.4	285.8	287.0
90th.....	306.5	305.0	303.4	307.4	306.4
95th.....	321.2	318.3	316.2	320.2	318.1
Female:					
5th.....	170.8	180.2	186.3	190.6	192.7
10th.....	187.7	195.5	200.5	204.8	208.4
25th.....	215.5	219.7	223.4	227.8	233.4
50th.....	245.0	246.1	248.0	253.1	258.2
75th.....	273.0	271.0	271.0	276.8	280.7
90th.....	297.7	292.8	291.3	296.8	299.8
95th.....	312.1	305.3	304.0	308.6	311.1
White:					
5th.....	190.8	198.0	203.5	208.6	212.6
10th.....	205.2	210.8	215.8	220.4	225.7
25th.....	229.3	233.2	237.0	241.3	246.1
50th.....	256.3	257.6	259.2	264.5	267.8
75th.....	282.9	281.5	282.3	287.0	289.0
90th.....	306.6	302.7	302.2	307.1	307.1
95th.....	320.8	316.2	313.9	319.4	318.0
Black:					
5th.....	144.3	160.3	167.8	169.7	162.1
10th.....	157.7	173.0	180.1	181.8	177.0
25th.....	180.5	193.7	198.3	202.3	198.9
50th.....	207.4	216.8	221.2	225.7	223.8
75th.....	234.8	240.7	243.5	249.1	251.4
90th.....	259.5	262.2	264.4	269.0	272.0
95th.....	274.6	274.7	276.8	283.2	286.0
Hispanic:					
5th.....	147.1	166.3	171.1	173.7	180.3
10th.....	161.4	179.4	181.3	185.3	193.0
25th.....	185.8	200.7	201.6	205.9	215.2
50th.....	213.3	225.9	225.6	230.9	237.9
75th.....	240.3	249.3	249.8	256.4	260.9
90th.....	265.8	271.2	269.9	280.0	281.8
95th.....	282.1	284.8	283.0	294.2	292.1

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Appendix table 2-10. Average scores by percentile for the National Assessment of Educational Progress science test for age 17, by sex and race/ethnicity: 1977–1992, selected years

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Percentile, sex, and race/ethnicity	1977	1982	1986	1990	1992
Total students:					
5th.....	212.6	203.2	211.8	209.9	217.7
10th.....	231.3	221.5	229.5	228.8	234.2
25th.....	260.6	252.5	259.6	260.3	263.6
50th.....	290.8	285.4	290.1	292.2	295.9
75th.....	320.1	315.3	319.4	322.7	326.6
90th.....	346.2	341.5	344.5	348.3	350.3
95th.....	361.5	357.3	359.9	362.9	363.8
Male:					
5th.....	219.5	210.3	213.9	210.4	219.0
10th.....	238.2	228.9	231.4	229.5	235.5
25th.....	267.6	261.1	263.5	263.4	267.4
50th.....	298.5	294.3	298.7	297.9	301.3
75th.....	328.1	324.8	327.6	329.9	333.6
90th.....	353.9	350.5	353.4	356.7	357.2
95th.....	368.8	365.3	367.0	372.5	370.4
Female:					
5th.....	207.5	198.3	209.8	209.2	216.5
10th.....	226.1	215.5	228.1	228.2	232.9
25th.....	254.5	245.7	256.2	257.7	260.3
50th.....	283.8	277.6	283.7	287.7	290.9
75th.....	311.5	306.2	310.8	316.2	319.8
90th.....	336.3	330.1	333.5	339.6	341.4
95th.....	351.2	345.2	348.3	351.5	354.4
White:					
5th.....	231.1	223.0	228.3	232.8	234.3
10th.....	246.0	239.1	244.5	249.0	251.3
25th.....	270.3	265.5	271.0	273.4	276.8
50th.....	297.5	293.6	298.7	301.2	306.0
75th.....	325.0	321.2	324.9	329.0	333.0
90th.....	349.9	346.0	348.9	352.3	355.1
95th.....	364.6	360.8	363.5	367.3	368.5
Black:					
5th.....	172.4	166.0	189.3	182.0	191.8
10th.....	187.3	180.6	201.6	196.6	206.6
25th.....	212.1	206.4	225.0	220.5	230.1
50th.....	240.4	234.7	251.9	251.6	255.4
75th.....	267.9	262.7	279.5	282.9	282.4
90th.....	293.4	288.8	306.0	313.5	308.2
95th.....	309.5	305.4	322.8	329.3	324.8
Hispanic:					
5th.....	193.7	178.0	194.4	188.7	196.6
10th.....	208.4	194.2	209.2	203.9	215.4
25th.....	234.3	218.8	232.0	230.6	241.6
50th.....	262.4	248.0	258.9	260.5	272.7
75th.....	289.5	278.4	285.8	292.6	297.9
90th.....	316.9	302.1	309.9	317.4	322.8
95th.....	331.3	320.8	324.4	329.5	339.1

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-11. Average science proficiency: percent of students at or above selected anchor points, by age, race/ethnicity, and sex: 1982–1992, selected years

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Age and year	Anchor point	Total	White	Black	Hispanic	Male	Female
Age 9	200						
1982.....		70.7	78.4	38.9	40.2	69.7	71.8
1986.....		72.0	78.9	46.2	50.1	74.1	70.0
1990.....		76.4	84.4	46.4	56.3	76.3	76.4
1992.....		78.0	85.5	51.3	55.5	80.4	75.7
Difference 1982–1992.....		7.3	7.1	12.4	15.3	10.7	3.9
Age 13	250						
1982.....		50.9	58.3	17.1	24.1	56.2	46.0
1986.....		52.5	61.0	19.6	24.9	57.3	47.7
1990.....		56.5	66.5	24.3	30.0	59.8	53.3
1992.....		61.3	71.1	26.2	36.5	62.9	59.6
Difference 1982–1992.....		10.4	12.8	9.1	12.4	6.7	13.6
Age 17	300						
1982.....		37.3	43.9	6.5	11.1	45.2	29.9
1986.....		41.3	48.7	12.5	14.8	48.8	34.1
1990.....		43.3	51.2	15.7	21.1	48.2	38.7
1992.....		46.6	55.4	14.1	23.0	50.9	42.0
Difference 1982–1992.....		9.3	11.5	7.6	11.9	5.7	12.1

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-12. Dropout and retention rates of 16- to 24-year-olds, by family income and disability status: 1992

[Percent distribution]

Page 1 of 1

Student characteristic	Retained in one or more grades	Dropout rate ¹		
		Total	Never retained	Retained
Total.....	11.5	11.0	9.4	19.8
Family income ² :				
Low.....	16.5	24.6	22.6	33.2
Middle.....	11.3	10.1	8.6	16.6
High.....	7.8	2.3	1.5	8.5
Disability status:				
No disability.....	9.5	10.6	9.1	19.4
Disability.....	32.0	15.7	13.3	21.0
Learning disability only.....	51.8	15.6	15.0	16.8
Learning plus other disability.....	29.0	22.2	20.2	26.9
Other disability only.....	24.3	13.1	10.1	22.1

¹ The percentage who are not enrolled in school and who have not received a high school diploma or equivalency credential.

² Low income is the bottom 20 percent of all family incomes; high income is the top 20 percent of all family incomes; and middle income is the 60 percent in-between range.

SOURCE: U.S. Department of Commerce, Bureau of the Census, Current Population Survey, October 1992.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-13. Selected characteristics of families, by race: 1993

[Numbers in thousands]

Page 1 of 1

Characteristic	Black	White	White, non-Hispanic
Children younger than 18 years of age by presence of parents ¹ :			
Number of children younger than 18 years of age.....	10,660	53,075	45,768
Percent with both parents.....	35.6	77.2	79.2
Percent with mother only.....	54.0	17.4	15.8
Percent with father only.....	3.0	3.5	3.5
Percent with neither parent.....	7.3	1.8	1.5
Families below poverty level:			
All families.....	7,993	57,881	52,470
Number below poverty level.....	2,499	5,452	3,988
Percent below poverty level.....	31.3	9.4	7.6
Families with related children younger than 18 years of age.....	5,525	29,234	25,477
Number below poverty level.....	2,171	4,226	2,946
Percent below poverty level.....	39.3	14.5	11.6

¹ Excludes persons younger than 18 years of age who were maintaining households or family groups and spouses.

NOTE: Because of rounding, percentages may not add to 100.

SOURCE: Bennett, Claudette E. 1995. *The Black Population in the United States: March 1994 and 1993*.

Current Population Reports, Population Characteristics, P20-480. Washington, DC: U.S. Bureau of the Census.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-14. Trends in average mathematics and science proficiency scores, by parents' highest level of education and age of student: 1978–1992, selected years

Page 1 of 1

Level of education and year	Mathematics			Science		
	Age 9	Age 13	Age 17	Age 9	Age 13	Age 17
Graduated college:						
1978.....	231	284	317	232	266	309
1982.....	229	282	312	230	264	300
1986.....	231	280	314	235	264	304
1990.....	238	280	316	236	268	306
1992.....	236	283	316	239	269	308
Some education after high school:						
1978.....	230	273	305	237	260	296
1982.....	225	275	304	229	259	290
1986.....	229	274	305	236	258	295
1990.....	236	277	308	238	263	296
1992.....	237	278	308	237	266	296
Graduated high school:						
1978.....	219	263	294	223	245	284
1982.....	218	263	293	218	243	275
1986.....	218	263	293	220	245	277
1990.....	226	263	294	226	247	276
1992.....	222	263	298	222	246	280
Less than high school:						
1978.....	200	245	280	198	224	265
1982.....	199	251	279	198	225	258
1986.....	201	252	279	204	229	258
1990.....	210	253	285	210	233	261
1992.....	217	256	286	217	234	262
I don't know:						
1978.....	211	240	276	211	222	253
1982.....	213	252	272	211	229	252
1986.....	214	247	281	215	226	245
1990.....	223	248	277	222	224	248
1992.....	224	253	290	224	232	258

NOTE: Standard errors are included in source publication.

SOURCE: Educational Testing Service. 1994. *Trends in Academic Progress*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-15. Grades 1–12 science and mathematics classes, by percentage of minority students and ability grouping: 1993

[Percent distribution]

Page 1 of 1

Grade and percent minority	Total	Ability grouping			
		Low	Average	High	Heterogeneous
Science classes					
Grades 1–4:					
Less than 10% minority.....	39	23	43	43	38
10% to 39% minority.....	34	19	29	48	37
40% or more minority.....	27	58	28	9	25
Grades 5–8:					
Less than 10% minority.....	46	24	51	55	43
10% to 39% minority.....	29	26	26	36	29
40% or more minority.....	26	50	24	10	28
Grades 9–12:					
Less than 10% minority.....	52	44	52	60	49
10% to 39% minority.....	29	28	32	30	26
40% or more minority.....	19	28	16	9	25
Mathematics classes					
Grades 1–4:					
Less than 10% minority.....	43	13	43	52	44
10% to 39% minority.....	33	12	38	26	33
40% or more minority.....	25	75	19	22	22
Grades 5–8:					
Less than 10% minority.....	40	23	44	53	36
10% to 39% minority.....	34	20	36	26	38
40% or more minority.....	26	57	21	21	26
Grades 9–12:					
Less than 10% minority.....	51	29	55	61	47
10% to 39% minority.....	29	29	30	30	28
40% or more minority.....	20	42	15	9	25

NOTES: Standard errors are included in source publication. Because of rounding, percentages may not add to 100.

SOURCE: National Science Foundation/EHR. 1993 National Survey of Science and Mathematics Education.

Appendix table 2-16. High school science and mathematics classes, by curricular emphases, activities, and ability grouping: 1993

[Percent distribution]

Page 1 of 1

Emphasis and activity	Ability grouping	
	Low	High
Curricular emphases		
Develop reasoning/inquiry skills.....	66	92
Increase awareness of the importance of science/mathematics in daily life.....	74	57
Learn basic science/mathematics concepts.....	81	89
Participate in selected activities at least once per week		
Science:		
Read text.....	55	40
Use hands-on.....	56	68
Mathematics:		
Do worksheet problems.....	70	50
Write reasoning about solving a problem.....	20	35

SOURCE: Weiss, Iris R. *A Profile of Science and Mathematics Education in the United States: 1993*. Research Triangle Park, NC: Research Triangle Institute.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-17. Grades 7–12 science and mathematics classes, by teachers with undergraduate or graduate major in the field, class objectives, and percent minority students in class: 1993

[Percent distribution]

Page 1 of 1

Major and objective	Percent minority students		
	Less than 10%	10% to 39%	40% or more
Teachers with major in field:			
Science.....	72	72	68
Mathematics.....	62	54	47
Classes emphasizing particular objectives:			
Prepare for standardized tests.....	24	30	42
Prepare for further study in science/mathematics.....	78	71	66

SOURCE: Weiss, Iris R. *A Profile of Science and Mathematics Education in the United States: 1993*. Research Triangle Park, NC: Research Triangle Institute.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-18. Number of high school teachers and percentage of teachers, by highest degree earned and selected school characteristics: 1990–1991

Page 1 of 1

School characteristics	Total teachers	Highest degree earned by teachers [Percent distribution]		
		Less than bachelor's	Bachelor's	Master's or higher
Total.....	865,874	1.4	46.6	52.0
Total public schools.....	755,691	1.3	46.0	52.7
Total private schools.....	110,183	2.4	50.1	47.5
Public schools				
Community:				
Rural/small town.....	329,782	1.3	55.0	43.7
Urban fringe/large town.....	219,652	1.1	36.9	62.0
Central city.....	174,045	1.5	40.8	57.7
Minority enrollment:				
0% to 19%.....	410,654	0.9	46.6	52.5
20% or more.....	312,824	1.8	45.4	52.8
Free-lunch recipients:				
Less than 20%.....	437,009	1.1	42.3	56.6
20% to 49%.....	207,279	1.4	51.6	47.0
50% or more.....	74,798	1.7	53.3	45.0
Private schools				
Community:				
Rural/small town.....	17,443	3.6	63.9	32.5
Urban fringe/large town.....	31,214	1.5	48.4	50.2
Central city.....	49,710	2.3	46.6	51.0
Minority enrollment:				
0% to 19%.....	68,589	2.4	51.2	46.4
20% or more.....	29,778	2.0	48.0	50.0

NOTES: Because of rounding, percentages may not add to 100. Details may not add to totals because some teachers did not have corresponding school data because of school nonresponse.

SOURCE: U.S. Department of Education/NCES. 1995. *Schools and Staffing Survey: Teacher Supply, Teacher Qualifications, and Teacher Turnover: 1990–91*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

**Appendix table 2-19. Selected characteristics of American Indian education:
1990–1991**

[Percent distribution]

Page 1 of 1

Teacher qualifications and school characteristics	Bureau of Indian Affairs/Tribal schools	with 25% or more enrollment of American Indians	Public schools with less than 25% enrollment of American Indians
Programs and services offered (percent distribution):			
English as a second language (ESL).....	44.5	21.5	41.1
Bilingual education.....	63.5	30.1	18.6
Remedial math.....	79.6	60.7	60.3
Gifted/talented.....	60.6	69.8	75.0
Chapter 1.....	100.0	82.5	66.2
Average years of instruction in discipline (numbers):			
Mathematics.....	2.7	2.3	2.4
Science.....	2.4	2.1	2.1
Schools that served 12th graders (in percentages):			
College prep program offered.....	54.0	54.9	76.2
Enrolled in college prep programs.....	37.6	49.3	52.0
Graduated from high school.....	81.7	91.3	93.5
Applied to college.....	32.6	43.0	56.1
Teacher qualifications:			
Percent with major/minor in teaching area.....	66.9	71.2	71.5
Percent certified in teaching area.....	91.3	97.9	97.5
Mean years of teaching experience.....	10.1	12.8	15.2

SOURCE: U.S. Department of Education/NCES. 1995. *Characteristics of American Indian and Alaska Native Education: Results from the 1990–91 Schools and Staffing Survey*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

**Appendix table 2-20. Percentage of principals and teachers who view certain issues as serious problems,
by type of school or American Indian enrollment: 1990–1991**

Page 1 of 1

Issues seen as serious	Principals			Teachers		
	Bureau of Indian Affairs/Tribal schools	Public schools with 25% or more enrollment of American Indians	Public schools with less than 25% enrollment of American Indians	Bureau of Indian Affairs/Tribal schools	Public schools with 25% or more enrollment of American Indians	Public schools with less than 25% enrollment of American Indians
Poverty.....	63.3	31.7	14.5	58.5	40.3	16.9
Parental alcohol/drug abuse.....	55.0	30.7	6.2	65.1	41.3	11.7
Lack of parental involvement.....	46.5	25.7	14.3	57.7	43.0	25.3
Student absenteeism.....	22.7	21.0	6.4	35.4	28.8	14.0
Student tardiness.....	15.7	12.6	4.9	20.3	19.3	11.1
Student dropout rate.....	14.4	5.9	2.8	22.6	13.6	6.3
Student use of alcohol.....	13.7	12.5	4.2	27.6	21.0	8.1
Cultural conflict.....	12.2	8.8	1.2	21.3	14.2	4.2
Student apathy.....	11.1	15.3	7.3	31.8	28.1	20.5
Lack of academic challenge.....	10.0	3.8	2.7	NA	NA	NA
Disrespect for teachers.....	NA	NA	NA	22.8	13.4	13.0

KEY: NA = not applicable

SOURCE: U.S. Department of Education/NCES. 1995. *Characteristics of American Indian and Alaska Native Education: Results from the 1990–91 Schools and Staffing Survey*. Washington, DC: U.S. Department of Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-21. Number of public school students and percentage of students participating in a particular program or service: 1993–1994

Students and program/service	Number	Page 1 of 1
Number of students.....	41,621,660	
		Percent
Program/service:		
Bilingual education.....	3.1	
English as a second language.....	4.0	
Remedial reading.....	10.9	
Remedial mathematics.....	6.9	
Programs for the handicapped.....	6.9	
Programs for the gifted and talented.....	6.4	
Extended day/before or after day care programs.....	2.5	

SOURCE: U.S. Department of Education/NCES. Schools and Staffing Survey, 1993–94.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-22. Students age 6–21 in federally supported programs for students with disabilities, by type of disability: 1992–1993

Page 1 of 1

Disability	Number	Percent
All disabilities.....	4,633,674	100.0
Specific learning disabilities.....	2,369,385	51.1
Speech or language impairments.....	1,000,154	21.6
Mental retardation.....	533,715	11.5
Serious emotional disturbance.....	402,668	8.7
Multiple disabilities.....	103,215	2.2
Hearing impairments.....	60,896	1.3
Orthopedic impairments.....	52,921	1.1
Other health impairments.....	66,054	1.4
Visual impairments.....	23,811	0.5
Autism.....	15,527	0.3
Deaf-blindness.....	1,425	0.0
Traumatic brain injury.....	3,903	0.1

NOTES: Because of rounding, percentages may not add to 100. Includes students served under Chapter 1 of ESEA (SOP) and IDEA, Part B.

SOURCE: U.S. Department of Education, Office of Special Education and Rehabilitative Services. 1994. Sixteenth Annual Report to Congress on the Implementation of the Individuals with Disabilities Education Act.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-23. Students age 6–21 with disabilities receiving special education services, by type of disability and educational environment: 1991–1992

[Percent distribution]

Page 1 of 1

Disability	Regular class	Resource room	Separate class	Separate school	Residential facility	Homebound/hospital
All disabilities.....	34.9	36.3	23.5	3.9	0.9	0.5
Specific learning disabilities.....	24.7	54.2	20.0	0.9	0.1	0.1
Speech or language impairments.....	85.5	9.1	3.9	1.4	0.1	0.1
Mental retardation.....	5.1	25.4	59.2	8.8	1.2	0.3
Serious emotional disturbance.....	15.8	27.8	36.9	13.9	4.0	1.5
Multiple disabilities.....	6.2	18.1	47.1	22.6	3.8	2.2
Hearing impairments.....	27.0	20.5	31.2	9.6	11.5	0.1
Orthopedic impairments.....	32.4	21.0	34.3	7.3	0.9	4.1
Other health impairments.....	35.3	27.6	21.4	3.3	0.5	11.8
Visual impairments.....	39.6	21.2	19.6	8.5	10.6	0.4
Autism.....	4.7	6.9	48.5	35.9	3.1	0.9
Deaf-blindness.....	5.8	6.2	36.3	21.2	28.6	1.8
Traumatic brain injury.....	7.8	9.0	23.7	53.4	3.7	2.4

NOTES: This table reflects a compilation of data reported by the States. There are some reporting variations (e.g., estimated or incomplete data and nonstandard definitions) from State to State. Data exclude U.S. territories. Because of rounding, percentages may not add to 100.

SOURCE: U.S. Department of Education, Office of Special Education and Rehabilitative Services. 1994. Sixteenth Annual Report to Congress on the Implementation of the Individuals with Disabilities Education Act.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-24. Science and mathematics classes with one or more students with disabilities, by type of disability and grade range: 1993

[Percent distribution]

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Subject and type of disability	Grades 1–4	Grades 5–8	Grades 9–12
Science:			
Learning disabled.....	53	54	31
Limited English proficiency.....	22	18	14
Mental disability.....	9	7	2
Physical disability.....	4	6	5
Mathematics:			
Learning disabled.....	52	40	24
Limited English proficiency.....	20	16	15
Mental disability.....	5	2	1
Physical disability.....	6	4	2

NOTE: Standard errors are included in source publication.

SOURCE: National Science Foundation/EHR. 1993 National Survey of Science and Mathematics Education.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-25. Number of college-bound seniors taking the Scholastic Aptitude Test (SAT) and their grade-point average (GPA) in high school, by sex and race/ethnicity: 1994

Page 1 of 1

Sex and GPA	Total ¹	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American
Numbers (in thousands):								
Total.....	1050.4	662.1	102.7	81.1	8.2	35.4	13.0	29.4
Male.....	493.1	308.5	42.4	40.0	3.8	15.6	5.6	12.9
Female.....	557.3	353.6	60.2	41.1	4.3	19.8	7.4	16.5
Male								
GPA (percent distribution):								
A+(97-100).....	5	5	1	8	3	4	3	4
A (93-96).....	11	12	4	16	6	9	8	8
A-(90-92).....	13	14	6	18	10	13	9	11
B (80-89).....	51	51	50	45	54	54	53	55
C (70-79).....	20	18	37	13	26	19	27	21
D, E, or F (below 70).....	*	*	2	1	1	1	1	1
Female								
GPA (percent distribution):								
A+(97-100).....	6	6	2	9	3	4	4	4
A (93-96).....	15	16	8	20	10	11	10	11
A-(90-92).....	16	17	9	20	13	14	9	13
B (80-89).....	51	50	56	43	57	55	56	55
C (70-79).....	13	11	24	8	16	15	20	17
D, E, or F (below 70).....	*	*	1	*	*	*	1	*

¹ Total includes 11 percent of students who did not fill out a descriptive questionnaire, or who listed themselves as "other."

KEY: * = Less than 0.5 percent

NOTE: Because of rounding, details may not add to totals.

SOURCE: College Entrance Examination Board. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 2 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

Appendix table 2-26. Scholastic Aptitude Test (SAT) mean scores of college-bound seniors, by test component, sex, and race/ethnicity: 1984–1994

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Test component, sex, and race/ethnicity	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Verbal:											
Total.....	426	431	431	430	428	427	424	422	423	424	423
Male.....	433	437	437	435	435	434	429	426	428	428	425
Female.....	420	425	426	425	422	421	419	418	419	420	421
White.....	445	449	NA	447	445	446	442	441	442	444	443
Black.....	342	346	NA	351	353	351	352	351	352	353	352
Asian.....	398	404	NA	405	408	409	410	411	413	415	416
American Indian.....	390	392	NA	393	393	384	388	393	395	400	396
Mexican American.....	376	382	NA	379	382	381	380	377	372	374	372
Puerto Rican.....	358	368	NA	360	355	360	359	361	366	367	367
Latin American.....	NA	NA	NA	387	387	389	383	382	383	384	383
Mathematics:											
Total.....	471	475	475	476	476	476	476	474	476	478	479
Male.....	495	499	501	500	498	500	499	497	499	502	501
Female.....	449	452	451	453	455	454	455	453	456	457	460
White.....	487	490	NA	489	490	491	491	489	491	494	495
Black.....	373	376	NA	377	384	386	385	385	385	388	388
Asian.....	519	518	NA	521	522	525	528	530	532	535	535
American Indian.....	427	428	NA	432	435	428	437	437	442	447	441
Mexican American.....	420	426	NA	424	428	430	429	427	425	428	427
Puerto Rican.....	405	409	NA	400	402	406	405	406	406	409	411
Latin American.....	NA	NA	NA	432	433	436	434	431	433	433	435

KEY: NA = not available

NOTE: Score range is 200 to 800 for each component.

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 1 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-27. Percentage of college-bound seniors who took natural science or mathematics in high school, by coursework, sex, and race/ethnicity: 1994

Page 1 of 1

Coursework	Total	Male	Female	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American
Biology.....	97	97	97	98	97	95	96	96	96	97
Chemistry.....	83	83	83	85	77	89	75	77	77	80
Geography/earth/space.....	44	45	44	47	43	34	46	27	50	39
Physics.....	46	51	41	47	35	65	34	35	40	44
Honors course taken.....	26	26	26	27	16	37	18	22	17	24
4 or more years natural science.....	47	50	45	50	37	55	39	30	42	42
Algebra.....	96	96	96	97	96	94	96	97	95	96
Geometry.....	93	93	93	94	88	94	90	94	89	92
Trigonometry.....	54	56	53	55	43	69	44	43	49	51
Precalculus.....	35	37	34	36	22	53	25	29	27	31
Calculus.....	21	24	19	22	11	40	12	15	11	17
Honors course taken.....	26	27	26	27	16	40	17	23	17	23
4 or more years mathematics.....	70	71	68	71	63	78	62	62	65	67

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 5 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-28. Percentage distribution of scores and mean scores on the Scholastic Aptitude Test (SAT) for college-bound seniors, by test component, sex, and race/ethnicity: 1994

Page 1 of 1

Test component and score	Total	Male	Female	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American
Verbal:										
700-800.....	1	1	1	1	*	2	*	*	*	*
600-690.....	6	6	6	7	1	9	3	2	2	3
500-599.....	18	18	18	22	7	17	14	9	9	13
400-499.....	31	31	32	36	21	26	30	26	26	27
300-399.....	29	28	30	27	40	25	35	38	38	34
Below 300.....	13	13	13	7	30	22	17	23	26	23
Mean score.....	423	425	421	443	352	416	396	372	367	383
Mathematics:										
700-800.....	4	7	3	5	*	13	1	1	1	1
600-690.....	14	17	11	16	3	22	7	6	6	8
500-599.....	25	27	24	29	12	26	22	19	16	20
400-499.....	29	26	30	30	26	22	31	33	30	29
300-399.....	20	17	24	17	38	14	28	31	34	30
Below 300.....	6	5	8	4	19	4	9	10	14	11
Mean score.....	479	501	460	495	388	535	441	427	411	435

KEY: * = less than 0.5 percent

NOTES: Scores are for college-bound seniors. Because of rounding, percentages may not add to 100.

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 9 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-29. Achievement test scores in science and mathematics and corresponding Scholastic Aptitude Test (SAT) mathematics and verbal scores for college-bound seniors, by achievement test, sex, and race/ethnicity: 1994

Achievement and SAT tests	Total	Male	Female	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American	Page 1 of 1
Chemistry.....	582	599	559	585	516	592	542	504	513	543	
SAT math score ¹	650	667	625	650	565	669	608	576	579	598	
SAT verbal score ²	544	548	538	561	495	520	508	481	495	511	
Biology.....	555	572	541	562	490	553	509	478	515	527	
SAT math score ¹	608	634	586	610	517	629	553	522	547	562	
SAT verbal score ²	540	546	535	551	482	520	493	463	502	505	
Physics.....	604	618	565	609	534	608	566	524	538	572	
SAT math score ¹	671	679	650	674	598	682	644	606	627	644	
SAT verbal score ²	543	543	541	568	514	504	537	484	507	516	
Mathematics level I.....	550	569	535	557	487	572	513	471	520	508	
SAT math score ¹	569	595	549	581	492	584	535	473	527	516	
SAT verbal score ²	499	502	498	522	455	466	482	418	466	458	
Mathematics level II.....	662	676	644	663	588	681	626	584	623	622	
SAT math score ¹	654	672	632	659	574	666	617	569	606	606	
SAT verbal score ²	549	550	548	570	504	516	533	471	514	511	
Mathematics level IIc.....	674	695	650	672	622	692	629	645	649	654	
SAT math score ¹	673	696	647	672	610	686	628	639	645	646	
SAT verbal score ²	576	577	575	588	537	548	553	525	566	558	

¹ Mean score on the mathematics portion of the SAT for seniors who took Achievement test in that subject.

² Mean score on the verbal portion of the SAT for seniors who took Achievement test in that subject.

NOTE: The score range is 200 to 800 for the Achievement test and the mathematics and verbal portions of the SAT.

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 11 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-30. Intended undergraduate majors of college-bound seniors taking the Scholastic Aptitude Test (SAT), by area of study, sex, and race/ethnicity: 1994

[Percent distribution]

Page 1 of 1

Sex and area of study	Total	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American
Total:								
Science and engineering.....	33	34	33	35	31	33	34	35
Agriculture/natural resources.....	2	2	—	—	2	1	1	1
Biological sciences.....	5	6	3	7	5	4	4	5
Computer sciences.....	3	2	5	4	3	3	4	3
Engineering.....	9	9	11	14	8	11	10	11
Mathematics.....	1	1	—	1	—	—	—	—
Physical sciences.....	1	2	1	1	1	1	1	1
Social sciences/history.....	12	12	13	8	12	13	14	14
Non-science and -engineering.....	67	66	67	65	69	67	66	65
Business and commerce.....	14	13	17	16	13	15	16	16
Education.....	8	9	6	3	8	7	6	5
Health and allied services.....	19	18	22	27	20	19	19	19
Other.....	26	26	22	19	28	26	25	25
Male:								
Science and engineering.....	40	39	40	42	37	38	38	40
Agriculture/natural resources.....	2	3	1	—	3	1	1	1
Biological sciences.....	5	5	3	6	5	3	4	4
Computer sciences.....	4	4	7	6	4	4	5	5
Engineering.....	17	15	19	22	13	19	17	19
Mathematics.....	1	1	1	1	1	1	—	—
Physical sciences.....	2	2	1	2	2	1	1	1
Social sciences/history.....	9	9	8	5	9	9	10	10
Non-science and -engineering.....	60	61	60	58	63	62	62	60
Business and commerce.....	15	15	19	15	15	14	16	17
Education.....	4	5	4	1	5	5	3	2
Health and allied services.....	13	12	12	22	13	15	13	14
Other.....	28	29	25	20	30	28	30	27
Female:								
Science and engineering.....	28	29	30	27	29	29	31	31
Agriculture/natural resources.....	1	2	—	—	2	1	1	1
Biological sciences.....	6	6	3	7	6	4	5	5
Computer sciences.....	2	1	5	2	2	2	3	2
Engineering.....	3	3	5	5	3	4	4	4
Mathematics.....	—	1	—	1	—	—	—	—
Physical sciences.....	1	1	—	1	1	1	—	1
Social sciences/history.....	15	15	17	11	15	17	18	18
Non-science and -engineering.....	72	71	70	73	71	71	69	69
Business and commerce.....	13	11	16	17	12	16	16	16
Education.....	11	13	6	4	11	9	7	7
Health and allied services.....	24	22	29	31	25	23	23	23
Other.....	24	25	19	21	23	23	23	23

KEY: — = less than 1 percent

NOTES: SAT mathematics scores are the mean mathematics scores on the aptitude portion of the SAT. Scores range from 200 to 800. Because of rounding, percentages may not add to 100.

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 8 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

Appendix table 2-31. Academic preparation and corresponding mean American College Testing (ACT) scores by sex, test component, and race/ethnicity: 1994

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Sex and test component	Total ¹	White	Black	Asian	American Indian	Mexican American	Puerto Rican/ Other Hispanic
Total							
Students taking core subjects or more.....	478,885	356,512	41,533	17,686	4,995	15,411	8,685
Scores:							
English.....	21.5	22.2	17.5	21.3	19.2	18.8	19.9
Math.....	21.5	22.0	17.8	23.8	19.6	19.7	20.4
Reading.....	22.5	23.2	18.1	22.3	20.4	19.8	20.8
Science/reasoning.....	22.1	22.7	18.2	22.2	20.4	19.8	20.4
Composite/score.....	22.0	22.6	18.0	22.5	20.0	19.6	20.5
Students taking less than core subjects....	359,974	260,155	39,275	7,952	5,533	13,918	5,950
Scores:							
English.....	18.6	19.4	15.1	18.4	16.4	16.1	16.6
Math.....	18.3	18.7	15.7	21.1	16.7	16.9	17.3
Reading.....	19.6	20.4	16.0	19.4	17.7	17.3	17.8
Science/reasoning.....	19.4	20.1	16.6	20.0	18.1	17.7	18.0
Composite/score.....	19.1	19.8	16.0	19.9	17.3	17.1	17.6
Male							
Students taking core subjects or more....	160,530	15,673	7,944	2,226	6,801	3,488	
Scores:							
English.....	21.8	16.9	20.7	18.7	18.6	19.5	
Math.....	22.7	18.1	24.5	20.1	20.4	21.3	
Reading.....	23.1	17.7	22.0	20.2	19.8	20.8	
Science/reasoning.....	23.5	18.4	22.8	20.9	20.5	21.2	
Composite/score.....	22.9	17.9	22.6	20.1	19.9	20.8	
Students taking less than core subjects....	112,945	16,747	3,700	2,471	5,902	2,405	
Scores:							
English.....	18.7	14.6	17.9	16.0	15.7	16.2	
Math.....	19.3	15.9	21.6	17.1	17.4	17.8	
Reading.....	20.0	15.7	19.1	17.5	17.1	17.5	
Science/reasoning.....	20.6	16.7	20.5	18.4	18.0	18.4	
Composite/score.....	19.8	15.8	19.9	17.4	17.2	17.6	
Female							
Students taking core subjects or more....	195,982	25,860	9,742	2,769	8,610	5,197	
Scores:							
English.....	22.6	18.0	21.7	19.6	19.0	20.1	
Math.....	21.3	17.7	23.3	19.1	19.1	19.8	
Reading.....	23.3	18.3	22.6	20.6	19.8	20.8	
Science/reasoning.....	22.0	18.0	21.7	19.9	19.2	19.9	
Composite/score.....	22.4	18.1	22.4	19.9	19.4	20.3	
Students taking less than core subjects....	147,210	22,528	4,252	3,062	8,016	3,545	
Scores:							
English.....	19.9	15.5	18.8	16.7	16.4	16.9	
Math.....	18.3	15.6	20.7	16.4	16.6	17.0	
Reading.....	20.6	16.2	19.7	17.8	17.4	18.0	
Science/reasoning.....	19.7	16.5	19.6	17.8	17.4	17.7	
Composite/score.....	19.8	16.1	19.8	17.3	17.1	17.5	

¹ Total includes 9 percent of students who did not answer the question.

SOURCE: American College Testing Program. 1994. *ACT High School Profile Report. High School Graduating Class of 1994 National Report.* Iowa City: American College Testing Program.

Appendix table 2-32. Estimated family income and corresponding mean verbal and mathematics Scholastic Aptitude Test (SAT) scores of college-bound seniors, by sex and race/ethnicity: 1994

Page 1 of 1

Test component and estimated family income	Total	Male	Female	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American
Total (percent distribution):										
Less than \$10,000.....	6	5	7	2	15	11	6	13	17	14
\$10,000-\$20,000.....	11	9	12	7	22	15	14	22	20	22
\$20,000-\$30,000.....	13	13	14	12	20	14	16	20	18	18
\$30,000-\$40,000.....	16	16	16	16	16	14	18	16	15	15
\$40,000-\$50,000.....	13	13	12	14	9	9	12	10	9	8
\$50,000-\$60,000.....	11	11	11	13	6	8	10	7	7	6
\$60,000-\$70,000.....	8	9	8	9	4	7	8	4	4	4
\$70,000 or more.....	23	25	21	27	8	21	17	8	10	13
SAT verbal scores:										
Less than \$10,000.....	350	354	348	403	319	335	361	328	323	328
\$10,000-\$20,000.....	377	378	376	414	334	357	377	346	344	350
\$20,000-\$30,000.....	402	403	401	423	349	392	386	366	363	375
\$30,000-\$40,000.....	416	417	416	428	360	415	393	382	380	396
\$40,000-\$50,000.....	429	429	428	436	370	435	400	396	392	412
\$50,000-\$60,000.....	437	437	437	443	374	447	406	403	405	420
\$60,000-\$70,000.....	446	445	447	451	384	456	414	408	398	433
\$70,000 or more.....	469	469	470	472	408	482	428	429	431	451
SAT mathematics scores:										
Less than \$10,000.....	416	446	397	458	358	482	393	388	360	380
\$10,000-\$20,000.....	435	459	418	461	371	500	418	406	388	403
\$20,000-\$30,000.....	454	477	436	471	385	515	428	422	404	426
\$30,000-\$40,000.....	469	490	450	478	395	528	438	434	421	445
\$40,000-\$50,000.....	482	503	463	487	404	539	449	449	436	459
\$50,000-\$60,000.....	492	512	473	496	411	551	449	455	454	473
\$60,000-\$70,000.....	502	520	485	506	420	558	467	461	449	482
\$70,000 or more.....	531	549	512	530	445	593	480	480	486	506

NOTES: Because of rounding, percentages may not add to 100. The score range is 200 to 800 for the mathematics and verbal portions of the SAT.

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 7 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

Appendix table 2-33. Highest level of parents' education and corresponding mean Scholastic Aptitude Test (SAT) verbal and mathematics scores of college-bound seniors, by sex and race/ethnicity: 1994

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Test component and highest level of parent's education	Total	Male	Female	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American
Total (percent distribution):										
Less than high school diploma....	5	4	5	2	6	11	5	29	13	18
High school diploma.....	36	34	38	35	51	27	44	41	42	36
Associate's degree.....	8	8	8	8	10	5	10	7	9	7
Bachelor's degree.....	27	28	26	29	20	30	24	13	20	18
Graduate degree.....	24	26	23	26	13	28	17	10	16	21
SAT verbal scores:										
Less than high school diploma....	336	339	334	371	306	331	329	330	320	323
High school diploma.....	393	394	392	411	337	377	377	371	359	372
Associate's degree.....	406	406	407	420	351	392	388	388	365	389
Bachelor's degree.....	443	444	443	455	376	423	421	415	382	413
Graduate degree.....	478	478	478	486	402	487	440	427	411	428
Total.....	423	425	421	443	352	416	396	372	367	383
SAT mathematics scores:										
Less than high school diploma....	407	433	389	420	350	479	378	391	356	377
High school diploma.....	445	467	428	460	374	502	421	426	398	420
Associate's degree.....	458	478	442	472	386	500	435	437	406	435
Bachelor's degree.....	503	523	484	510	410	547	468	466	434	466
Graduate degree.....	535	556	516	540	435	588	483	478	463	487
Total.....	479	501	460	495	388	535	441	427	411	435

NOTES: Because of rounding, percentages may not add to 100. The score range is 200 to 800 for the mathematics and verbal portions of the SAT.

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 8 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

Women, Minorities, and Persons With Disabilities in Science and Engineering: 1996

Appendix table 2-34. Citizenship status and corresponding mean verbal and mathematics Scholastic Aptitude Test (SAT) scores of college-bound seniors, by sex and race/ethnicity: 1994

Page 1 of 1

Test component and citizenship status	Total	Male	Female	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American
Total (percent distribution):										
U.S. citizen/naturalized citizen.....	92	92	92	98	93	59	98	89	99	68
Permanent resident or refugee.....	5	5	5	1	5	27	1	9	1	23
Citizen of another country.....	3	4	3	1	2	15	1	3	*	9
SAT verbal scores:										
U.S. citizen/naturalized citizen.....	430	433	428	444	352	454	398	378	368	402
Permanent resident or refugee.....	360	364	356	408	337	359	332	330	332	343
Citizen of another country.....	386	388	384	419	381	374	351	324	282	362
SAT mathematics scores:										
U.S. citizen/naturalized citizen.....	480	503	461	495	387	536	442	431	411	445
Permanent resident or refugee.....	471	501	446	510	383	514	408	397	373	402
Citizen of another country.....	527	548	504	533	437	576	463	410	383	458

KEY: * = less than 0.5 percent

NOTES: Because of rounding, percentages may not add to 100. The score range is 200 to 800 for the mathematics and verbal portions of the SAT.

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 6 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

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Appendix table 2-35. Mean Scholastic Aptitude Test (SAT) scores of college-bound seniors, by disability status, test component, sex, and race/ethnicity: 1994

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Test component and disability status	Total	Male	Female	White	Black	Asian	American Indian	Mexican American	Puerto Rican	Latin American
Total (percent distribution):										
Disabling condition reported.....	4	4	4	4	4	3	6	3	5	4
No disabling condition reported.....	96	96	96	96	96	97	94	97	95	96
SAT verbal scores:										
Disabling condition reported.....	391	394	389	405	325	382	366	355	334	363
No disabling condition reported.....	427	430	424	445	354	419	399	373	369	384
SAT mathematics scores:										
Disabling condition reported.....	436	452	419	445	359	489	401	408	378	404
No disabling condition reported.....	483	508	463	498	390	538	445	428	413	437

NOTE: The score range is 200 to 800 for the mathematics and verbal portions of the SAT.

SOURCE: College Entrance Examination Board. 1994. *College Bound Seniors, 1994 SAT Profile, Profile of SAT and Achievement Test Takers*, p. 1 of each of 10 separate reports for each sex and race/ethnicity. Princeton, NJ: Educational Testing Service.

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